

Monitoring Data RecordProject Title: U-4026B (Davis Drive) COE Action ID: 200120448Stream Name: Tributary to Burdens Creek (Site 9) DWQ Number: 051972City, County and other Location Information: Durham County, Davis Drive (Sta. 284+50RT.)Date Construction Completed: 12/5/07 Monitoring Year: ( 1 ) of 5Ecoregion: \_\_\_\_\_ 8 digit HUC unit 03030002

USGS Quad Name and Coordinates: \_\_\_\_\_

**Rosgen Classification:** \_\_\_\_\_Length of Project: 261' Urban or Rural: Urban Watershed Size: \_\_\_\_\_Monitoring DATA collected by: M. Green and J. Young Date: 6/11/08

## Applicant Information:

Name: NCDOT Roadside Environmental UnitAddress: 1425 Rock Quarry Rd, Raleigh, NC 27610Telephone Number: (919) 861-3772 Email address: mlgreen@dot.state.nc.us

## Consultant Information:

Name: \_\_\_\_\_

Address: \_\_\_\_\_

Telephone Number: \_\_\_\_\_ Email address: \_\_\_\_\_

**Project Status:** \_\_\_\_\_**Monitoring Level required by COE and DWQ (404 permit/ 401 Cert.):** Level 1

Permit States: The permittee shall perform the following components of Level I monitoring each year for the 5-year monitoring period: Reference photos; plant survival (i.e. identify specific problem areas (missing, stressed, damaged or dead plantings), estimated causes, and proposed/required remedial action); visual inspection of channel stability. Physical measurements of channel stability/morphology will not be required. The permittee shall submit the monitoring reports to the USACE, Raleigh Regulatory Field Office Project Manager, within sixty days after completing the monitoring. If less than two bankfull events occur during the first 5 years, the permittee shall continue monitoring until the second bankfull event is documented. The bankfull events must occur during separate monitoring years. In the event that the required bankfull events do not occur during the five-year monitoring period, the USACE, in consultation with the resource agencies, may determine that further monitoring is not required. It is suggested that all bankfull occurrences be monitored and reported through the required monitoring period. The permittee shall perform and submit photo documentation twice each year (summer and winter) for the 5-year monitoring period, and for any subsequently required monitoring period.

Section 1. PHOTO REFERENCE SITES*(Monitoring at all levels must complete this section)***Total number of reference photo locations at this site:** 6 photos were taken from 2 photo point locations looking up and down stream**Dates reference photos have been taken at this site:** 2/19/08, 6/11/08**Individual from whom additional photos can be obtained (name, address, phone):** \_\_\_\_\_Other Information relative to site photo reference: A site map is included with this report showing the photo point locations.

If required to complete Level 3 monitoring only stop here; otherwise, complete section 2.

**Section 2. PLANT SURVIVAL**

**Attach plan sheet indicating reference photos.**

Identify specific problem areas (missing, stressed, damaged or dead plantings):

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Estimated causes, and proposed/required remedial action:\_\_\_\_\_

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ADDITIONAL COMMENTS: Planted vegetation noted along the streambank consisted of black willow, silky dogwood, and elderberry live stakes. Tulip poplar, sycamore, willow oak, green ash, and river birch bareroot seedlings were noted in the floodplain.

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If required to complete Level 1 and Level 2 monitoring only stop here; otherwise, complete section 3.

### Section 3. CHANNEL STABILITY

**Visual Inspection:** The entire stream project as well as each in-stream structure and bank stabilization/revetment structure must be evaluated and problems addressed.

Report on the visual inspection of channel stability. Physical measurements of channel stability/morphology will not be required. Include a discussion of any deviations from as-built and an evaluation of the significance of these deviations and whether they are indicative of a stabilizing or destabilizing situation.

The Tributary to Burdens Creek is stable for Year 1 Summer evaluation. . A bankfull event has occurred since the last monitoring evaluation. Low stream flow noted during the year 1 summer monitoring evaluation. NCDOT will continue to monitor this stream relocation.

Date Inspected	Station Number	Station Number	Station Number	Station Number	Station Number
Structure Type					
Is water piping through or around structure?					
Head cut or down cut present?					
Bank or scour erosion present?					
Other problems noted?					



# Tributary to Burdens Creek



Photo Point #1 (Upstream)



Photo Point #1 (Downstream)



Photo Point #2 (Upstream)



Photo Point #2 (Downstream)



Photo Point #3 (Upstream)



Photo Point #3 (Downstream)

The diagram illustrates a proposed bridge structure over a creek, with the following details:

- Bridge Structure:** A multi-span bridge crossing a creek. The main span is labeled "95'".
- Piers and Photo Points:** Three piers are identified as PP#1, PP#2, and PP#3. Each pier has a corresponding photo point location marked with a circle containing a crosshair.
- Creek and Easement:** The creek is labeled "Burdens Creek". An easement boundary is indicated by a dashed line labeled "E".
- Property Lines:** Property boundaries are shown with solid lines and labels such as "PROP. 1'-6\" C&G" and "PROP. 2'-6\" C&G".
- Survey Data:** Various survey points and elevations are noted, including "352", "351", "350", "355", and "356". Elevations like "+66.25'", "8.75'", and "+35 -L- 95'" are also present.
- Other Features:** A "60' CONC" label indicates a concrete section. A north arrow is located near the top right. A scale bar at the bottom left shows distances from 0 to 100 feet.